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ArPLICATION NO	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09 905,320	07 13 2001	Cem Basceri	MI22-1657	6172
21567	7590 02 13 2003			
WELLS ST. JOHN ROBERTS GREGORY & MATKIN P.S. 601 W. FIRST AVENUE SUITE 1300			EXAMINER	
			FULLER, ERIC B	
SPOKANE,	DKANE, WA 99201-3828		ART UNIT	PAPER NUMBER
			1762	
			DATE MAILED: 02 13 2003	12

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/905,320	BASCERI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Eric B Fuller	1762				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w. - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	6(a) In no event, however, may a reply be time within the statutory minimum of thirty (30) days all apply and will expire SIX (6) MONTHS from I cause the application to become ABANDONEI	rely filed s will be considered timely the mailing date of this communication O (35 U S C. § 133)				
1) Responsive to communication(s) filed on <u>26 N</u>	Responsive to communication(s) filed on <u>26 November 2002</u> .					
2a) This action is FINAL . 2b) ⊠ Thi	s action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
4) ☐ Claim(s) 1-8,17-22 and 52-66 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)[Claim(s) <u>1-8,17-22 and 52-66</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner						
10) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) Ali b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 15	5) Notice of Informal P	(PTO-413) Paper No(s) atent Application (PTO-152)				
S. Patent and Trademark Office						

Application/Control Number: 09/905,320

Art Unit: 1762

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 3-6, 17, 18, 20, 52, 54-57, 60, 61, 63, and 66 are rejected under 35 U.S.C. 102(e) as being anticipated by Dornfest et al. (US 2002/0197793 A1).

Dornfest, from paragraph [0056] to [0075], teaches a process of applying a BST film by CVD. A substrate is provided in the chamber [0057]. The barium and strontium precursors are provided as one source, and titanium precursor is supplied as another [0059-0060]. As it is only taught that the ratios of the precursors **may** vary during deposition [0061], the reference reads on supplying the precursors at a constant atomic ratio and volumetric flow. It is taught that varying the flow rate of the one or more oxidizers during deposition controls the chemical and physical properties of the film [0065]. The change in atomic concentration of barium, strontium, and titanium in the film is inherent to changing the oxygen flow, as adding more oxygen to the film reduces the concentration of all three metals. The oxidizer may be O₂, N₂O₃ or O₃ [0065].

Application/Control Number: 09/905,320

Art Unit: 1762

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2, 19, 53, and 62 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dornfest et al. (US 2002/0197793 A1).

Dornfest teaches the limitations as shown above and explicitly teaches to vary the oxidizer flow rate, but is silent to changing it at least twice. However, it would have been within the skill of one practicing in the art to determine how many times to change the flow rate of oxidizer in order to achieve the desired chemical and physical properties of the film, through routine experimentation.

Claims 7, 8, 21, 22, 58, 59, 64, and 65 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dornfest et al. (US 2002/0197793 A1) as applied to claims 1, 17, 52, and 60 above, and further in view of Kang et al. (US 6,127,218).

Dornfest teaches the limitations shown above, but fails to teach that the oxidizer may be NO. However, Kang teaches that NO is an equivalent substitute for N₂O as an oxidizer for BST films in CVD processes. Therefore, to use NO as an oxidizer in Dornfest would have been obvious at the time the invention was made to a person

Application/Control Number: 09/905,320

Art Unit: 1762

having ordinary skill in the art with a reasonable expectation of success, as equivalence has been shown.

Response to Arguments

Applicant's arguments have been found convincing and the rejections of the previous Office Action have been withdrawn accordingly. However, new grounds of rejections have been established with respect to Dornfest et al. Applicant's arguments are most in view of the new grounds of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eric B Fuller whose telephone number is (703) 308-6544. The examiner can normally be reached on Mondays through Thursdays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Shrive Beck, can be reached at (703) 308-2333. The fax phone numbers for the organization where this application or proceeding is assigned are 703 872-9310 for regular communications and (703) 872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

Art Unit: 1762

EBF

February 9, 2003

TIMOTHY MEEKS PRIMARY EXAMINED